FIG. 1

SYSTEM CONFIGURATION EXAMPLE

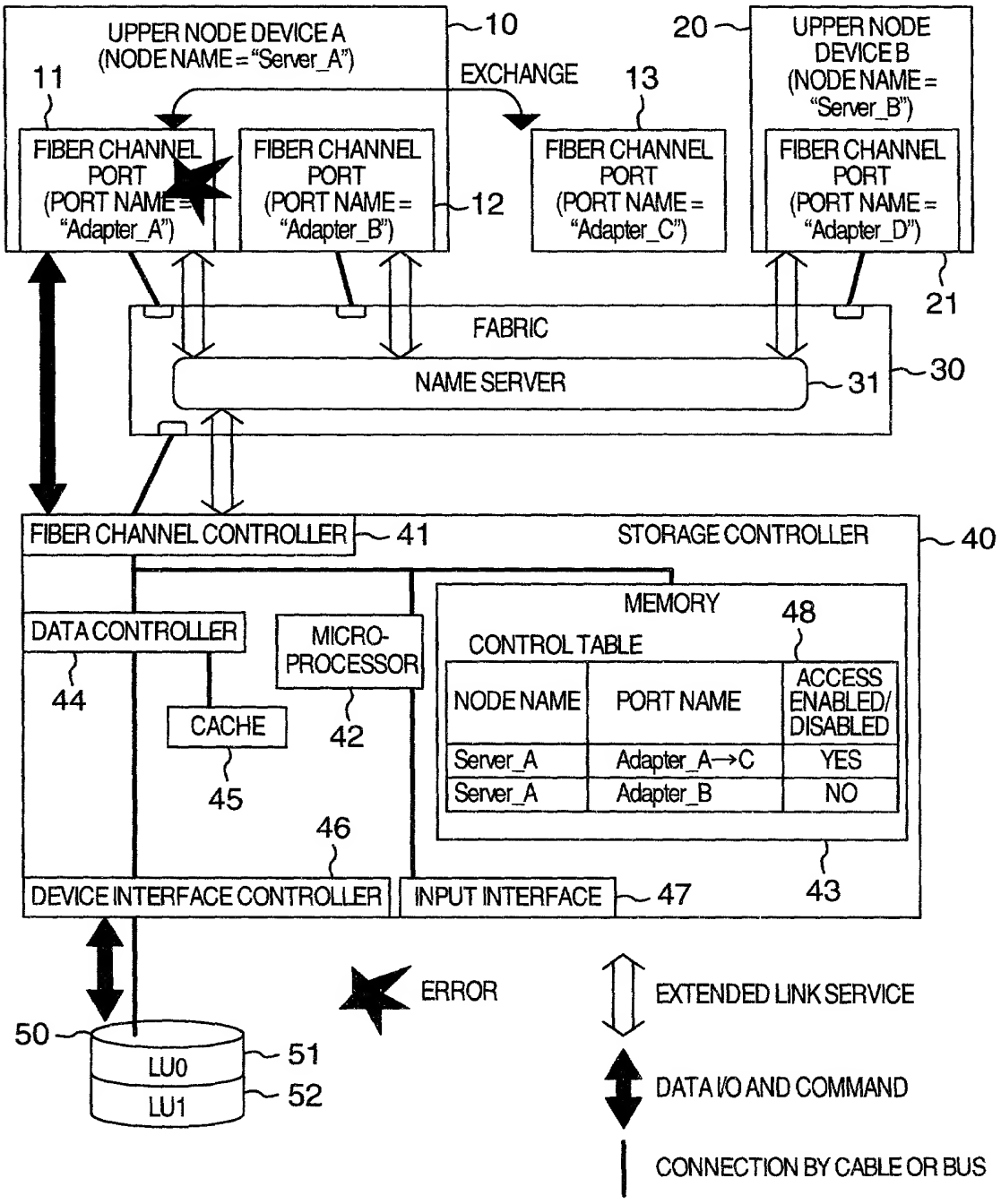
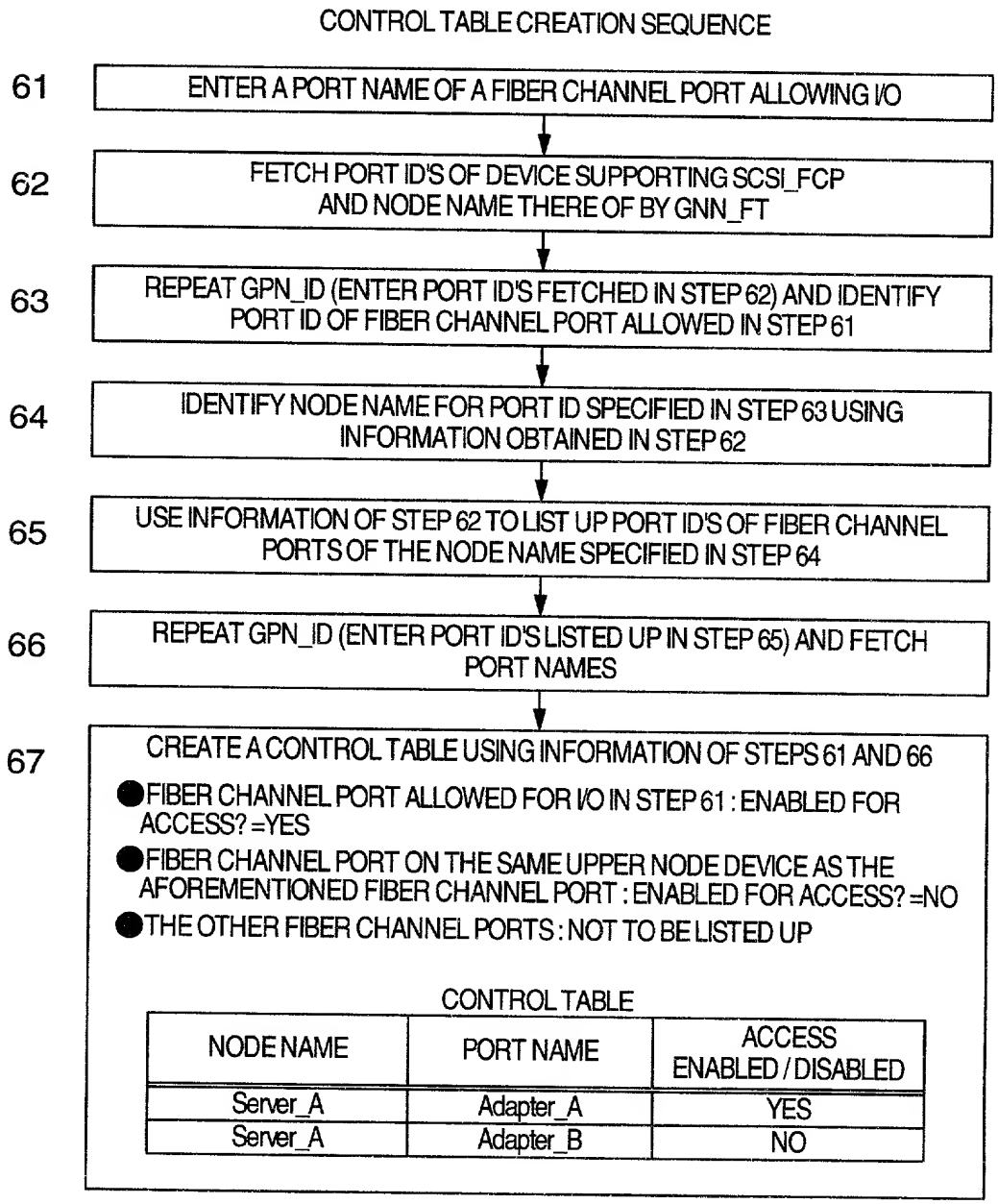


FIG. 2

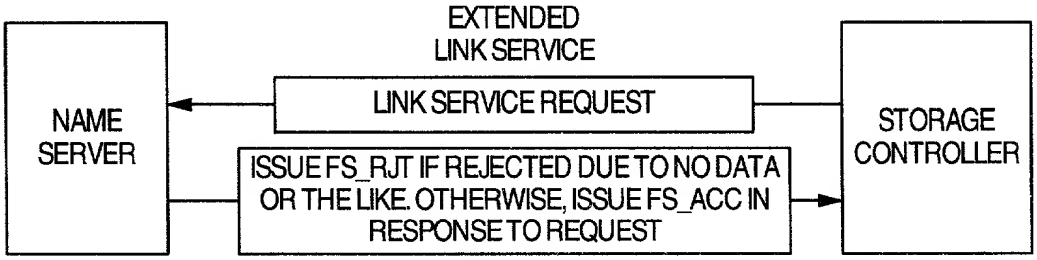

CONTROL TABLE CREATION SEQUENCE
61
ENTER A PORT NAME OF A FIBER CHANNEL PORT ALLOWING I/O
62
FETCH PORT ID'S OF DEVICE SUPPORTING SCSI_FCP AND NODE NAME THERE OF BY GNN_FT
63
REPEAT GPN_ID (ENTER PORT ID'S FETCHED IN STEP 62) AND IDENTIFY PORT ID OF FIBER CHANNEL PORT ALLOWED IN STEP 61
64
IDENTIFY NODE NAME FOR PORT ID SPECIFIED IN STEP 63 USING INFORMATION OBTAINED IN STEP 62
65
USE INFORMATION OF STEP 62 TO LIST UP PORT ID'S OF FIBER CHANNEL PORTS OF THE NODE NAME SPECIFIED IN STEP 64
66
REPEAT GPN_ID (ENTER PORT ID'S LISTED UP IN STEP 65) AND FETCH PORT NAMES
67
CREATE A CONTROL TABLE USING INFORMATION OF STEPS 61 AND 66
● FIBER CHANNEL PORT ALLOWED FOR I/O IN STEP 61 : ENABLED FOR ACCESS? =YES
● FIBER CHANNEL PORT ON THE SAME UPPER NODE DEVICE AS THE AFOREMENTIONED FIBER CHANNEL PORT : ENABLED FOR ACCESS? =NO
● THE OTHER FIBER CHANNEL PORTS : NOT TO BE LISTED UP
CONTROL TABLE
NODE NAME
PORT NAME
ACCESS ENABLED / DISABLED
Server_A
Adapter_A
YES
Server_A
Adapter_B
NO

3/6

FIG. 3

EXTENDED LINK SERVICE USED FOR SECURITY INFORMATION MANAGEMENT

68



69 GNN_FT (GET NODE NAME BY FC-4 TYPE) REQUEST PAYLOAD

BYTE \ BIT	0 7	8 15	16 23	24 31
0-3	RESERVED	DOMAIN_ID	AREA_ID	FC-4 TYPE

FC-4 TYPE : 08h IN SCSI

FS_ACC ACCEPT PAYLOAD

BYTE \ BIT	0 7	8 15	16 23	24 31
0-3	RESERVED	PORT_ID #1		
4-7	RESERVED			
8-11	PORT NAME #1			
12-15				
16-19	CONTROL	PORT ID #2		
20-23	RESERVED			
24-27	PORT NAME #2			
28-31				
:	:			

70 GPN_ID (GET PORT NAME BY PORT ID) REQUEST PAYLOAD

BYTE \ BIT	0 7	8 15	16 31
0-3	RESERVED	PORT_ID (24 BIT)	

FS_ACC ACCEPT PAYLOAD

BYTE \ BIT	0 15	16 31
0-3	PORT_NAME (64 BIT)	
4-7		

71 GNN_ID (GET NODE NAME BY PORT ID) REQUEST PAYLOAD

BYTE \ BIT	0 7	8 15	16 31
0-3	RESERVED	PORT_ID (24 BIT)	

FS_ACC ACCEPT PAYLOAD

BYTE \ BIT	0 15	16 31
0-3	NODE_NAME (64 BIT)	
4-7		

4/6

FIG. 4

DATA TRANSFER SEQUENCE EXAMPLE

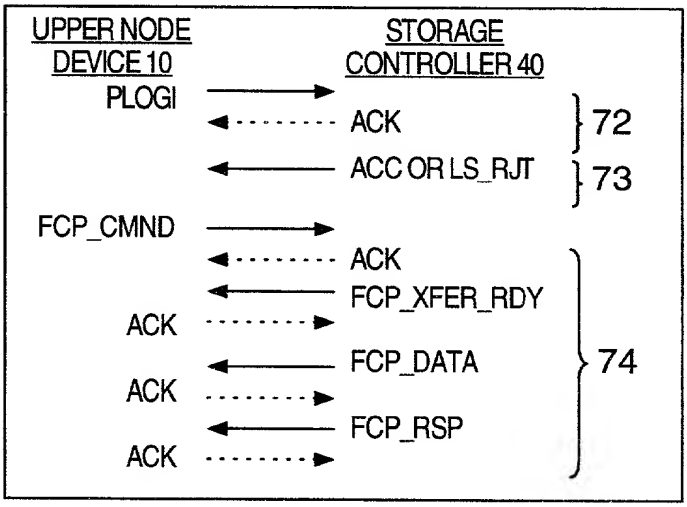


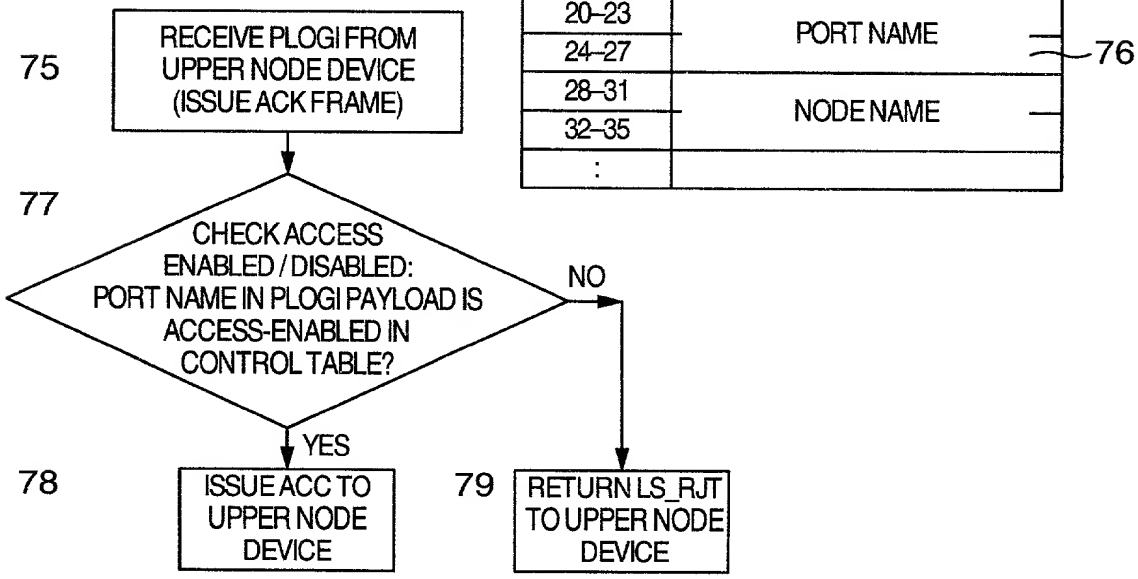
FIG. 5

SEQUENCE FOR CHECKING PORT NAME IN PAYLOAD

PART OF PLOGI PAYLOAD

BYTE \ BIT	0 31
0–3	LINK SERVICE COMMAND CODE
4–7	COMMON SERVICE PARAMETERS
8–11	
12–15	
16–19	
20–23	PORT NAME
24–27	
28–31	NODE NAME
32–35	
:	

76



5/6

FIG. 6

CONTROL TABLE CORRECTION SEQUENCE

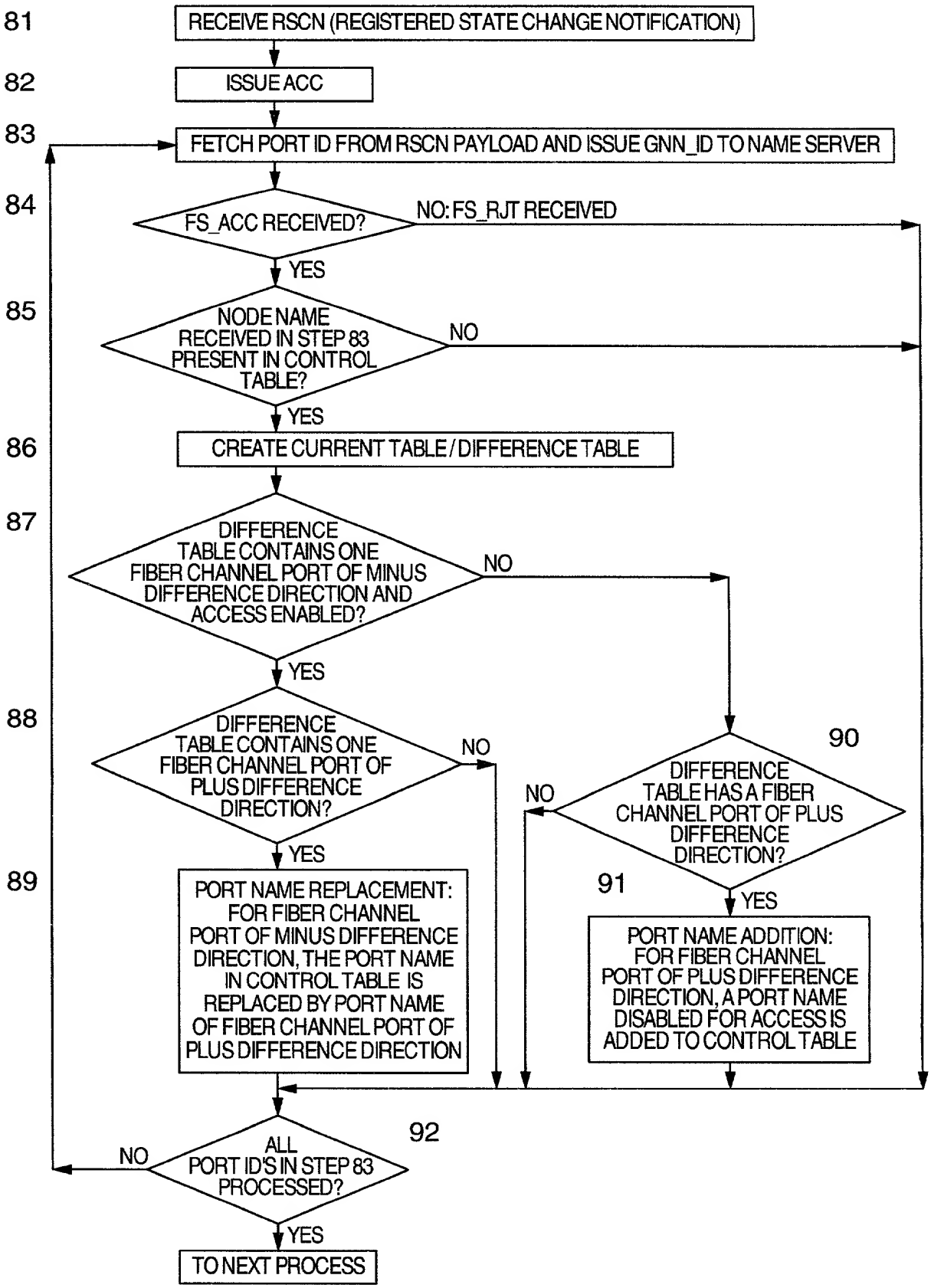
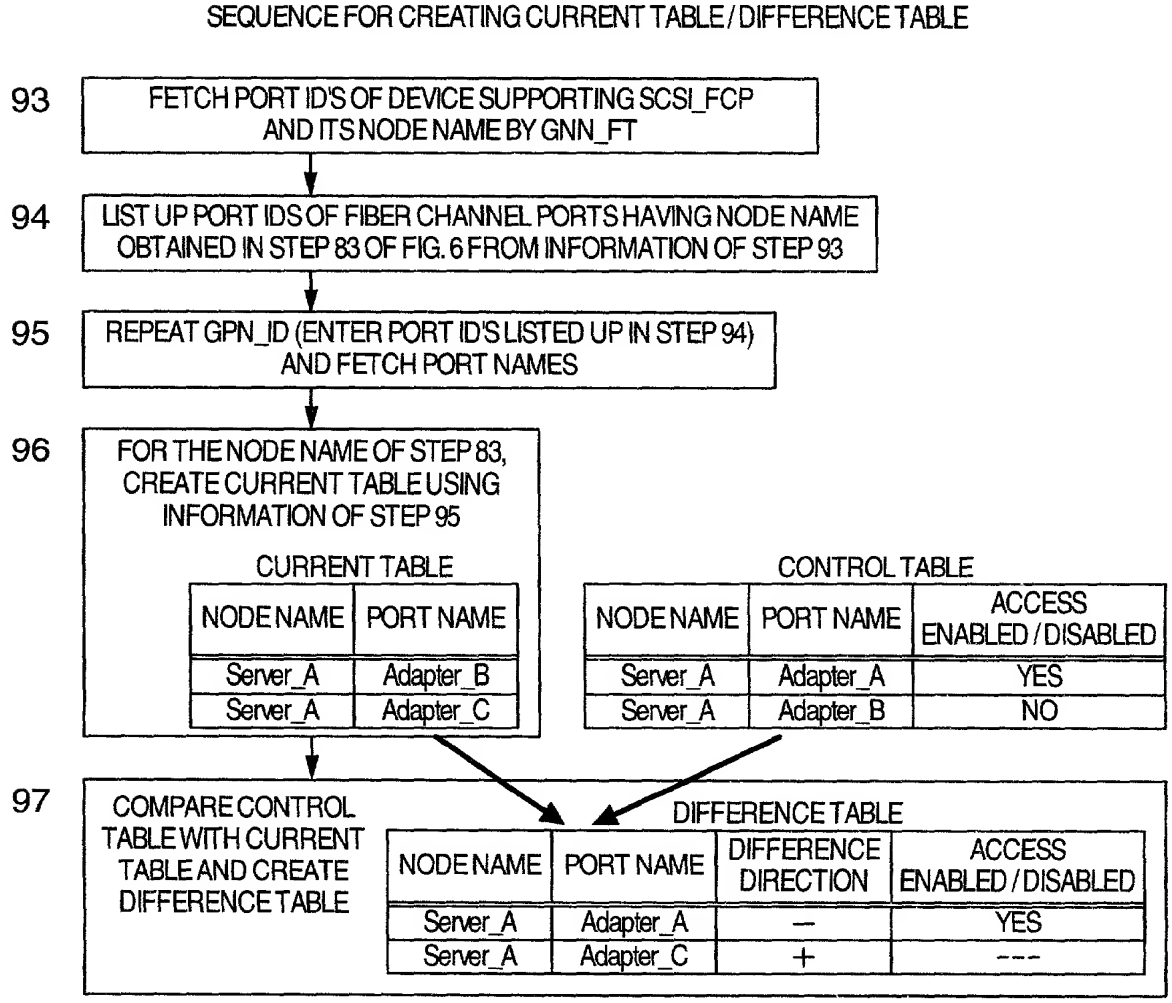


FIG. 7


SEQUENCE FOR CREATING CURRENT TABLE / DIFFERENCE TABLE
93
FETCH PORT ID'S OF DEVICE SUPPORTING SCSI_FCP AND ITS NODE NAME BY GNN_FT
94
LIST UP PORT IDS OF FIBER CHANNEL PORTS HAVING NODE NAME OBTAINED IN STEP 83 OF FIG. 6 FROM INFORMATION OF STEP 93
95
REPEAT GPN_ID (ENTER PORT ID'S LISTED UP IN STEP 94) AND FETCH PORT NAMES
96
FOR THE NODE NAME OF STEP 83, CREATE CURRENT TABLE USING INFORMATION OF STEP 95
CURRENT TABLE
NODE NAME | PORT NAME
Server_A | Adapter_B
Server_A | Adapter_C
CONTROL TABLE
NODE NAME | PORT NAME | ACCESS ENABLED / DISABLED
Server_A | Adapter_A | YES
Server_A | Adapter_B | NO
97
COMPARE CONTROL TABLE WITH CURRENT TABLE AND CREATE DIFFERENCE TABLE
DIFFERENCE TABLE
NODE NAME | PORT NAME | DIFFERENCE DIRECTION | ACCESS ENABLED / DISABLED
Server_A | Adapter_A | — | YES
Server_A | Adapter_C | + | ---